Artificial Intelligence Assignment 1

Nakul Thureja 2020528

Factors Used:

- CGPA
- Courses
- Interests

Code Snippet:

Ruleset: courses

Suggests your career on basis of that you have chosen all courses from a particular field

Ruleset: career

Suggests your career on basis of that you have done some courses in the field of your interest

```
with ruleset('career'):
  @ when all((m.interest == "Machine Learning")
              & ((((m.course1 == "Machine Learning") | (m.course2 == "Machine
Learning") | (m.course3 == "Machine Learning") | (m.course4 == "Machine
Learning") | (m.course5 == "Machine Learning"))
"Artificial Intelligence") | (m.course3 == "Artificial Intelligence") |
(m.course4 == "Artificial Intelligence") | (m.course5 == "Artificial
Intelligence")))
              | (((m.course1 == "Machine Learning") | (m.course2 == "Machine
Learning") | (m.course3 == "Machine Learning") | (m.course4 == "Machine
Learning") | (m.course5 == "Machine Learning"))
                & ((m.course1 == "Deep Learning") | (m.course2 == "Deep
Learning") | (m.course3 == "Deep Learning") | (m.course4 == "Deep Learning") |
(m.course5 == "Deep Learning")))
Learning") | (m.course3 == "Deep Learning") | (m.course4 == "Deep Learning") |
(m.course5 == "Deep Learning"))
Intelligence")))))
  def print career(c):
      global flag
      if (flag):
          print("Since you have done two-three courses in the field of Machine
Learning, we recommend you to take up a career in the field of Data Science.")
          flag = False
    @ when all(m.output == True)
  def print_career(c):
      global flag
      if (flag):
c.m.course2,
                                     'course3': c.m.course3, 'course4':
c.m.course4,
                                     'course5': c.m.course5, 'output':
c.m.output})
```

Ruleset: gpa

Divides your career on the basis of low and high cgpa

Sample Run 1:

```
Career Advisory System for College Students of IIIT DELHI
Enter Your Kame: nakul

Enter Your CGPA: 9

Interests: 1. Mschime Learning
2. Cyber Security
3. Electronics
4. Finance
5. UI-UX Designer
6. Mathematics and Computing
Enter Your Interest: 1

Courses: 1. Mschime Learning
2. Artificial Intelligence
3. Deep Learning
4. Computer Networks
5. Fundamentals of Computer Security
6. Notework Security
7. Human Computer Interaction
8. Prototyping Interactive Systems
9. 30 Animation
10. Digital Circuits
11. Basic Electronics
12. Signals and Systems
13. Data Structures and Algorithms
14. Algorithm Design and Analysis
1. Intro to Programming
15. Intro to Programming
16. Calculus
17. Probability and Statistics
18. Calculus
19. Money and Banking
19. Foundations of Finance
21. Economics
Enter Course Number 2: 5
Enter Course Number 2: 5
Enter Course Number 3: 1
Enter Course Number 4: 7
Enter Course Number 4: 7
Enter Course Number 5: 3
Career Recommended: Data Scientist
Since you have done two three courses in the field of Machine Learning, we recommend you to take up a career in the field of Data Science.
```

Sample Run 2:

```
Career Advisory System for College Students of IIIT DELHI
Enter your Name: nakul
Enter your Name: nakul
Enter Your COPA: 8

Interests:
1. Machine Learning
2. Cyber Security
3. Electronics
4. Finance
5. UI-UX Designer
6. Will Hambards and Computing
Enter Your Interest: 2

Courses:
1. Machine Learning
2. Artificial Intelligence
3. Deep Learning
4. Computer Networks
5. Fundamentals of Computer Security
6. Fundamentals of Computer Security
7. Human Computer Interaction
8. Prototyping Interactive Systems
9. 3D Animation
10. Digital Circuits
11. Basic Electronics
12. Signals and Systems
13. Data Structures and Algorithms
14. Algorithm Design and Analysis
15. Linear Algobra
17. Probability and Statistics
18. Calcuits
19. Money and Banking
10. Foundations of Finance
21. Economics
22. Economics
23. Economics
24. Economics
25. Enter Course Number 1: 1
Enter Course Number 2: 5
Enter Course Number 3: 1
Enter Course Number 4: 15
Enter Course Number 5: 2
Career Recommended: SDE (Software Development Engineer)
Since your interests and favourite courses do not coincide, we recommend you to take up a career in the field of software development and druther chooce a more specific career path down the line.

nakul@makul-IPS:-/Desicton/AIA35 | |
```

Sample Run 3:

```
nakul@nakul-IP5:~/Desktop/AIA3$ /bin/python3 /home/nakul/Desktop/AIA3/main.py
Career Advisory System for College Students of IIIT DELHI
Enter your Name: nakul
    Enter Your CGPA: 6
  Interests:
1. Machine Learning
2. Cyber Security
3. Electronics
4. Finance
5. UI-UX Designer
6. Mathematics and Computing
Enter Your Interest: 4
Courses:

1. Machine Learning
2. Artificial Intelligence
3. Deep Learning
4. Computer Networks
5. Fundamentals of Computer Security
6. Network Security
7. Human Computer Interaction
8. Prototyping Interactive Systems
9. 3D Animation
10. Digital Circuits
11. Basic Electronics
12. Signals and Systems
13. Data Structures and Algorithms
14. Algorithm Design and Analysis
15. Intro to Programming
16. Linear Algebra
17. Probability and Statistics
18. Calculus
19. Money and Banking
20. Foundations of Finance
21. Economics
Enter Course Number 1: 3
Enter Course Number 2: 6
Enter Course Number 3: 5
Enter Course Number 4: 10
Enter Course Number 4: 10
Enter Course Number 4: 10
Enter Course Number 5: 1
Career Recommended: SDE
Due to your GGPA system recommends you to go for SDE and get better at skills and then choose a more specific career path

Sample Run 4:
```

Sample Run 4:

```
Career Advisory System for College Students of IIIT DELHI
Enter Your CGPA: 10

Interests:
1. Machine Learning
2. Cyber Security
3. Electronics
4. Finance
5. UI-UX Designer
6. Mothematics and Computing
Enter Your Interest: 3

Courses:
1. Machine Learning
2. Artificial Intelligence
3. Deep Learning
4. Computer Networks
5. Fundamentals of Computer Security
6. Network Security
7. Human Computer Interaction
8. Prototyping Interactive Systems
9. 30 Animation
10. Digital Circuits
11. Basic Electronics
12. Signals and Systems
13. Data Structures and Algorithms
13. Algorithm Design and Analysis
15. Linear Algebra
16. Linear Algebra
17. Probability and Statistics
18. Calculus
19. Money and Banking
20. Foundations of Finance
21. Economics
Enter Course Number 1: 1
Enter Course Number 2: 5
Enter Course Number 3: 10
Enter Course Number 3: 10
Enter Course Number 3: 12
Enter Course Number 3: 25
Enter Course Number 4: 15
Enter Course Number 5: 25
Enter Course Number 5: 25
Enter Course Number 5: 26
Enter Course Number 5: 26
Enter Course Number 5: 25
Enter Course Number 5: 26
Enter Course Number 7: 27
Enter Course Number 7: 27
Enter Course Number 7: 27
Enter Course Number 8: 28
Enter Course Number 8: 28
Enter Course Number 9: 28
Enter Cour
```